

11 Apr 1990

WA1MA-A
WATTMETER

1. GENERAL. This procurement requires an in-line power measuring test set capable of measuring incident and reflected power levels in watts.

2. CLASSIFICATION. Type II, Class 3, Style EP, and Color R in accordance with MIL-T-28800 for shipboard applications. The power source requirements are not invoked.

3. OPERATIONAL REQUIREMENTS. The equipment shall be capable of measuring incident and reflected power within the minimum power levels, frequency ranges, and accuracies specified below.

3.1 Power. The power measurement capability shall be as specified in table I.

TABLE I. Frequency and Power

<u>Frequency Range</u>	<u>Incident and Reflected Power Ranges</u>
2 to 30 MHz	10W to 10 kW
25 to 520 MHz	1W to 1 kW

3.1.1 Accuracy. $\pm 5\%$ of reading.

3.2 Maximum input without damage. 120% of the selected power range.

3.3 Input and output connectors. The equipment shall be equipped with a Type N(f) input connector and a Type N(m) output connector.

3.4 Insertion VSWR. 1.2:1 maximum.

3.5 Transit case. The Style P transit case shall store all components of the power measuring test set.

4. GENERAL REQUIREMENTS.

4.1 Weight. 20 kg (44 lb) maximum.

4.2 Lithium batteries. Per MIL-T-28800, lithium batteries are prohibited without prior authorization. A request for approval for the use of lithium batteries, including those encapsulated in integrated circuits, shall be submitted to the procuring activity at the time of submission of proposals. Approval shall apply only to the specific model proposed.